Performance Data Sheet

RGA5453BXD

General Information

Model	RGA5453BXD	**Refrigerant**	R-410A
Test Condition	ASHRAE	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	1670	1610					
	Watts	307	325					
	Amps	1.34	1.45					
	Lb/h	22.1	21.0					
-10	Btu/h	1960	1870	1770				
	Watts	316	336	357				
	Amps	1.38	1.50	1.62				
	Lb/h	25.1	23.9	22.7				
-5	Btu/h	2280	2160	2030	1890			
	Watts	322	346	369	393			
	Amps	1.42	1.55	1.67	1.80			
	Lb/h	28.5	27.3	26.0	24.7			
0	Btu/h	2640	2480	2310	2150	1980		
	Watts	327	353	379	406	433		
	Amps	1.45	1.58	1.72	1.86	1.99		
	Lb/h	32.3	31.0	29.6	28.2	26.8		
5	Btu/h	3030	2830	2630	2430	2230		
	Watts	330	359	388	417	447		
	Amps	1.47	1.61	1.76	1.90	2.05		
	Lb/h	36.6	35.2	33.7	32.2	30.6		
10	Btu/h	3470	3230	2990	2750	2510	2270	2030
	Watts	332	363	395	427	459	491	524
	Amps	1.49	1.64	1.79	1.94	2.10	2.26	2.41
	Lb/h	41.2	39.7	38.1	36.5	34.9	33.2	31.4
15	Btu/h	3930	3660	3380	3110	2830	2560	2280
	Watts	331	366	400	435	469	504	540
	Amps	1.49	1.65	1.81	1.97	2.14	2.30	2.47
	Lb/h	46.3	44.6	43.0	41.3	39.6	37.8	35.9
20	Btu/h	4440	4130	3820	3500	3190	2880	2560
	Watts	329	366	403	441	478	516	554
	Amps	1.49	1.66	1.83	2.00	2.17	2.35	2.52
	Lb/h	51.7	50.0	48.3	46.5	44.6	42.8	40.8

25	Btu/h	4980	4630	4280	3930	3580	3230	2880
	Watts	325	365	405	445	485	526	567
	Amps	1.48	1.66	1.84	2.02	2.20	2.38	2.56
	Lb/h	57.6	55.8	53.9	52.0	50.1	48.1	46.1
30	Btu/h	5570	5180	4790	4400	4020	3630	3240
	Watts	320	362	405	448	491	534	577
	Amps	1.46	1.65	1.84	2.03	2.21	2.41	2.60
	Lb/h	63.9	62.0	60.0	58.0	56.0	53.9	51.8
35	Btu/h	6190	5760	5340	4910	4490	4060	3630
	Watts	312	357	403	448	494	540	586
	Amps	1.44	1.64	1.83	2.03	2.23	2.43	2.63
	Lb/h	70.7	68.6	66.5	64.4	62.3	60.1	57.9
40	Btu/h	6850	6390	5920	5460	4990	4530	4070
	Watts	303	351	399	447	496	545	594
	Amps	1.41	1.62	1.82	2.02	2.23	2.44	2.65
	Lb/h	77.8	75.6	73.5	71.2	69.0	66.7	64.4
45	Btu/h	7560	7050	6550	6050	5540	5040	4540
	Watts	292	343	394	445	496	548	599
	Amps	1.38	1.59	1.80	2.01	2.23	2.44	2.66
	Lb/h	85.4	83.1	80.8	78.5	76.1	73.7	71.3
50	Btu/h	8310	7760	7220	6680	6130	5590	5050
	Watts	279	333	387	441	495	549	603
	Amps	1.33	1.55	1.78	2.00	2.22	2.44	2.67
	Lb/h	93.4	91.0	88.6	86.1	83.6	81.1	78.6
55	Btu/h	9100	8510	7930	7350	6760	6180	5600
	Watts	265	321	378	435	491	548	606
	Amps	1.29	1.51	1.74	1.97	2.21	2.44	2.67
	Lb/h	102	99.3	96.8	94.2	91.6	89.0	86.3

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.932943E+03	1.232746E+02	3.986891E-01	4.236779E+01
C2	1.341150E+02	-3.642815E+00	-9.336079E-03	9.735870E-01
C3	-1.617472E+01	2.558622E+00	1.319014E-02	-1.267608E-01
C4	7.813980E-01	-3.714952E-02	-1.559586E-04	8.639771E-03
C5	-7.526854E-01	5.665043E-02	1.832076E-04	-2.312385E-03
C6	2.945132E-03	-6.046766E-04	-3.300443E-06	1.084163E-04
C7	9.402116E-04	6.005950E-06	2.609881E-07	3.989119E-06
C8	-8.185572E-04	1.742771E-05	-5.447656E-08	-6.558826E-06
C9	1.938268E-04	-1.217940E-05	-4.573796E-08	2.705443E-06
C10	-3.256260E-05	6.317307E-06	3.484470E-08	-1.130955E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature